

What is claimed is:

- 15 1. An article of manufacture comprising a monolithic composition formed by combining at least the following components: a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; a hydrophilic agent is at least about 10% by weight of the polymer
 20 and is selected from the group consisting of polyglycols poly(ethylene glycol), poly(propylene glycol), EVOH, pentaerithritol, PVOH, polyvinylpyrrolidone, vinylpyrrolidone or poly(N-methyl pyrrolidone), and saccharide based compounds, glucose, fructose and their alcohols, mannitol,
 25 dextrin, and hydrolized starch and mixtures thereof; and a releasing agent selected from the group consisting of pesticides, nematocides, fungicides and rodenticides;
 wherein the composition comprises at least three phases and has interconnecting channels with the releasing agent in or adjacent to these channels.
- 30 2. The article of manufacture of claim 1 wherein the polymer is a thermoplastic.
3. The article of manufacture of claim 1, wherein the hydrophilic agent is a polyglycol.
- 35 4. An article of manufacture comprising a monolithic composition formed by combining at least the following components: a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; a hydrophilic agent is at least about 10% by weight of the polymer and is selected from the group consisting of polyglycols,
 40 poly(ethylene glycol), poly(propylene glycol), EVOH, pentaerithritol PVOH, polyvinylpyrrolidone, vinylpyrrolidone or poly(N-methyl pyrrolidone), and saccharide based compounds, glucose, fructose, and their alcohols, mannitol, dextrin, and hydrolized starch and mixtures thereof; and a
 45 releasing agent selected from the group consisting of fragrance, flavor and perfume sources;
 wherein the composition comprises at least three phases and has interconnecting channels with the releasing agent in or adjacent to these channels.
- 50 5. The article of manufacture of claim 4 wherein the polymer is a thermoplastic.
6. The article of manufacture of claim 4 wherein the hydrophilic agent is a polyglycol.
- 55 7. An article of manufacture comprising a monolithic composition formed by combining at least the following components: a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; a hydrophilic agent is at least about 10% by weight of the polymer and is selected from the group consisting of polyglycols,
 60 poly(ethylene glycol), poly(propylene glycol), EVOH, pentaerithritol, PVOH, polyvinylpyrrolidone, vinylpyrrolidone or poly(N-methyl pyrrolidone), and saccharide based compounds, glucose, fructose, and their alcohols, mannitol, dextrin, and hydrolized starch and mixtures thereof; and a
 65 releasing agent selected from the group consisting of antimicrobial, corrosion inhibitors, ripening and antiripening agents;

wherein the composition comprises at least three phases and has interconnecting channels with the releasing agent in or adjacent to these channels.

8. The article of manufacture of claim 7 wherein the polymer is a thermoplastic.

9. The article of manufacture of claim 7 wherein the hydrophilic agent is a polyglycol.

10. An article of manufacture comprising a monolithic composition formed by combining at least the following components: a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; a hydrophilic agent having a solubility in water above about 1% at 25° C. and atmospheric pressure and is at least about 10% by weight of the polymer; and a releasing agent selected from the group consisting of pesticides, nematocides, fungicides and rodenticides;

wherein the composition comprises at least three phases and having interconnecting channels with the releasing agent in or adjacent to these channels.

11. The article of manufacture of claim 10 wherein the polymer is a thermoplastic.

12. The article of manufacture of claim 10 wherein the hydrophilic agent is a polyglycol.

13. An article of manufacture comprising a monolithic composition formed by combining at least the following components: a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; a hydrophilic agent having a solubility in water above about 1% at 25° C. and atmospheric pressures and is at least about 10% by weight of the polymer; and a releasing agent selected from the group consisting of fragrance, flavor and perfume sources;

wherein the composition comprises at least three phases and having interconnecting channels with the releasing agent in or adjacent to these channels.

14. The article of manufacture of claim 13 wherein the polymer is a thermoplastic.

15. The article of manufacture of claim 13 wherein the hydrophilic agent is a polyglycol.

16. An article of manufacture comprising a monolithic composition formed by combining at least the following components: a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; a hydrophilic agent having a solubility in water above about 1% at 25° C. and atmospheric pressure and is at least about 10% by weight of the polymer; and a releasing agent selected from the group consisting of antimicrobial, corrosion inhibitors ripening and antiripening agents;

wherein the composition comprises at least three phases and having interconnecting channels with the releasing agent in or adjacent to these channels.

17. The article of manufacture of claim 16 wherein the polymer is a thermoplastic.

18. The article of manufacture of claim 16 wherein the hydrophilic agent is a polyglycol.

19. An article of manufacture comprising a monolithic composition comprising at least the following components:

(a) a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure;

(b) a hydrophilic agent is at least about 10% by weight of the polymer and is selected from the group consisting of polyglycols, poly(ethylene glycol), poly(propylene glycol), EVOH, pentaerythritol, PVOH, polyvinylpyrrolidone, vinylpyrrolidone or poly(N-methyl pyrrolidone), and saccharide based compounds, glucose, fructose, and their alcohols, mannitol, dextrin, and hydrolized starch and mixtures thereof; and

(c) a releasing agent selected from the group consisting of pesticides, nematocides, fungicides and rodenticides; wherein the composition comprises at least three phases and has interconnecting channels with the releasing agent in or adjacent to these channels.

20. The article of manufacture of claim 19 wherein the polymer is a thermoplastic.

21. The article of manufacture of claim 19 wherein the hydrophilic agent is a polyglycol.

22. An article of manufacture comprising a monolithic composition comprising at least the following components:

(a) a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure;

(b) a hydrophilic agent is at least about 10% by weight of the polymer and is selected from the group consisting of polyglycols, poly(ethylene glycol), poly(propylene glycol), EVOH, pentaerithritol, PVOH, polyvinylpyrrolidone, vinylpyrrolidone or poly(N-methyl pyrrolidone), and saccharide based compounds glucose, fructose, and their alcohols, mannitol, dextrin, and hydrolized starch and mixtures thereof; and

(c) a releasing agent selected from the group consisting of fragrance, flavor and perfume sources; wherein the composition comprises at least three phases and has interconnecting channels with the releasing agent in or adjacent to these channels.

23. The article of manufacture of claim 22 wherein the polymer is a thermoplastic.

24. The article of manufacture of claim 22 wherein the hydrophilic agent is a polyglycol.

25. An article of manufacture comprising a monolithic composition comprising at least the following components:

(a) a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure;

(b) a hydrophilic agent is at least about 10% by weight of the polymer and is selected from the group consisting of polyglycols, poly(ethylene glycol), poly(propylene glycol), EVOH, pentaerithritol, PVOH, polyvinylpyrrolidone, vinylpyrrolidone or poly(N-methyl pyrrolidone), and saccharide based compounds, glucose, fructose, and their alcohols, mannitol, dextrin, and hydrolized starch and mixtures thereof; and

(c) a releasing agent selected from the group consisting of antimicrobial, corrosion inhibitors, ripening and anti-ripening agents; wherein the composition comprises at least three phases and has interconnecting channels with the releasing agent in or adjacent to these channels.

26. The article of manufacture of claim 25 wherein the polymer is a thermoplastic.

27. The article of manufacture of claim 25 wherein the hydrophilic agent is a polyglycol.

28. An article of manufacture comprising a monolithic composition comprising at least the following components:

(a) a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure;

(b) a hydrophilic agent having a solubility in water above about 1% at 25° C. and atmospheric pressure and is at least about 10% by weight of the polymer; and

(c) a releasing agent selected from the group consisting of pesticides, nematocides, fungicides and rodenticides; wherein the composition comprises at least three phases and having interconnecting channels with the releasing agent in or adjacent to these channels.

29. The article of manufacture of claim 28 wherein the polymer is a thermoplastic.

30. The article of manufacture of claim 28 wherein the hydrophilic agent is a polyglycol.

31. An article of manufacture comprising a monolithic composition comprising at least the following components:

- (a) a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; 5
- (b) a hydrophilic agent having a solubility in water above about 1% at 25° C. and atmospheric pressure and is at least about 10% by weight of the polymer; and
- (c) a releasing agent selected from the group consisting of fragrance, flavor and perfume sources; 10

wherein the composition comprises at least three phases and having interconnecting channels with the releasing agent in or adjacent to these channels. 15

32. The article of manufacture of claim 31 wherein the polymer is a thermoplastic.

33. The article of manufacture of claim 31 wherein the hydrophilic agent is a polyglycol.

34. An article of manufacture comprising a monolithic composition comprising at least the following components: 20

- (a) a polymer having a solubility in water below about 0.1% at 25° C. and atmospheric pressure; 20
- (b) a hydrophilic agent having a solubility in water above about 1% at 25° C. and atmospheric pressure and is at least about 10% by weight of the polymer; and 25
- (c) a releasing agent selected from the group consisting of antimicrobial, corrosion inhibitors ripening and anti-ripening agents; 25

wherein the composition comprises at least three phases and having interconnecting channels with the releasing agent in or adjacent to these channels. 30

35. The article of manufacture of claim 34 wherein the polymer is a thermoplastic.

36. The article of manufacture of claim 34 wherein the hydrophilic agent is a polyglycol. 35

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